NM1 - 43

MONITORING REPORTS

YEAR(S):

2008-2010

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

March 8, 2010

Ken Livingston
Loco Hills Landfarm
P.O. Box 2093
Lovington, NM 88260

Re: Soil Samples

Enclosed are the results of analyses for sample number H19330, received by the laboratory on 02/24/10 at 8:35 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.2	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 8 (includes Chain of Custody)

Sincerely,

Celey D. Keene
Laboratory Director

This report conforms with NELAP requirements.

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: KEN LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 02/24/10
Reporting Date: 03/04/10
Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 03/02/10
Sampling Date: 02/24/10
Sample Type: SOIL
Sample Condition: INTACT @ 19.5°C
Sample Received By: JH
Analyzed By: HM

LAB NO.	SAMPLE ID	Cl^- (mg/kg)
H19330-1	CELL #1 BATCH SAMPLE	144
H19330-2	CELL #1 2' DEEP	< 16
H19330-3	CELL #2 BATCH SAMPLE	208
H19330-4	CELL #2 2' DEEP	< 16
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods	4500-Cl B

Note: Analyses performed on 1:4 w:v aqueous extracts.
Not accredited for Chloride.

Chemist

03/08/10
Date

H19330Cl Loco Hills Landfarm

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: KEN LIVINGSTON
PO BOX 2093
LOVINGTON, NM 88260

Receiving Date: 02/24/10
Reporting Date: 03/01/10
Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location. NOT GIVEN

Sampling Date: 02/24/10
Sample Type: SOIL
Sample Condition. INTACT @ 19.5°C
Sample Received By: JH
Analyzed By: ZL

LAB NUMBE SAMPLE ID	MTBE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	02/25/10	02/25/10	02/25/10	02/25/10	02/25/10
H19330-1 CELL #1 BATCH SAMPLE	<0.050	<0.050	<0.050	0.199	1.63
H19330-2 CELL #1 2' DEEP	<0.050	<0.050	<0.050	<0 050	<0.300
H19330-3 CELL #2 BATCH SAMPLE	<0.050	<0.050	<0.050	<0.050	<0.300
H19330-4 CELL #2 2' DEEP	<0.050	<0.050	<0.050	<0.050	<0.300
Quality Control	0.046	0.056	0.056	0.056	0.165
True Value QC	0 050	0.050	0 050	0.050	0.150
% Recovery	92.0	112	112	112	110
Relative Percent Difference	3.0	2.3	1.7	1.2	<1.0

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight

Chemist

03/08/10
Date

H19330 BLOCO

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: KEN LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 02/24/10
Reporting Date:03/01/10
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/24/10
Sample Type: SOIL
Sample Condition: INTACT @ 19.5^{0}C
Sample Received By: JH
Analyzed By: AB

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)
ANALYSIS DATE		02/27/10	02/27/10
H19330-1*	CELL #1 BATCH SAMPLE	<10.0	50.8
H19330-2	CELL #1 2' DEEP	<10.0	<10.0
H19330-3*	CELL #2 BATCH SAMPLE	<10.0	38.6
H19330-4	CELL #2 2' DEEP	<10.0	<10.0
Quality Control		422	461
True Value QC		500	500
% Recovery		84.4	92.2
Relative Percent Difference		7.4	3.6

METHODS: TPH GRO & DRO: EPA SW-846 8015 M
*TPH second surrogate outside historical limits due to matrix interference.
Reported on wet weight.
Not accredited for GRO/DRO.

Chemist

03/08/10
Date

H19330 TCL LOCO

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: KEN LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 02/24/10
Reporting Date: 03/04/10
Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/24/10
Sample Type: SOIL
Sample Condition: INTACT @ 19.5°C
Sample Received By: JH
Analyzed By: JM/HM

LAB NO.	SAMPLE ID	Na (mg/kg)	Ca (mg/kg)	Mg (mg/kg)	K (mg/kg)	Conductivity (μS/cm)	T-Alkalinity ($mgCaCO_3/L$)
ANALYSIS DATE:		03/02/10	03/02/10	03/02/10	03/02/10	03/02/10	02/26/10
H19330-1	CELL #1 BATCH SAMPLE	287	98,200	4,130	1,130	26,500	112
H19330-2	CELL #1 2' DEEP	63.8	74,400	5,010	1,810	405	304
H19330-3	CELL #2 BATCH SAMPLE	333	101,000	3,830	1,130	35,700	112
H19330-4	CELL #2 2' DEEP	61.4	81,100	4,830	1,630	426	224
Quality Control		8.45	5.23	4.98	10 5	1,413	NR
True Value QC		8.10	5.00	5.00	10.0	1,413	NR
% Recovery		104	105	99.6	105	100	NR
Relative Percent Difference		<0.1	1.0	0.7	0.9	1.8	NR
METHODS:		3050/6010	3050/6010	3050/6010	3050/6010	120.1	310.1

LAB NO.	SAMPLE ID	SO_4 (mg/kg)	CO_3 (mg/kg)	HCO_3 (mg/kg)	pH (mg/kg)
ANALYSIS DATE:		02/26/10	02/26/10	02/26/10	03/02/10
H19330-1	CELL #1 BATCH SAMPLE	7,720	0	137	7 67
H19330-2	CELL #1 2' DEEP	< 40	16	288	8.41
H19330-3	CELL #2 BATCH SAMPLE	7,590	0	137	7.80
H19330-4	CELL #2 2' DEEP	< 40	16	208	8.37
Quality Control		39.8	NR	976	7.01
True Value QC		40.0	NR	1000	7.00
% Recovery		99.4	NR	97.6	100
Relative Percent Difference		9.3	NR	< 0.1	0.3
METHODS:		375 4	310.1	310.1	150.1

Chemist

05/08/10
Date

H19330 Loco Hills Landfarm

CARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: KEN LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 02/24/10
Reporting Date: 03/04/10
Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/24/10
Sample Type: SOIL
Sample Condition: INTACT @ 19.5°C
Sample Received By: JH
Analyzed By: JM

TOTAL METALS

LAB NUMBER	SAMPLE ID	Cu (mg/kg)	Fe (mg/kg)	Mn (mg/kg)	Zn (mg/kg)
ANALYSIS DATE		03/02/10	03/02/10	03/02/10	03/02/10
H19330-1	CELL #1 BATCH SAMPLE	3.08	4,390	72.4	28.0
H19330-2	CELL #1 2' DEEP	4.78	8,510	161	30.4
H19330-3	CELL #2 BATCH SAMPLE	3.53	4,420	72.9	28.0
H19330-4	CELL #2 2' DEEP	3.72	7,480	147	28.7
Quality Control		5.28	4.99	2.71	2.46
True Value QC		5.00	5.00	2.50	2.50
% Accuracy		106	99.8	108	98.4
Relative Percent Difference		0.2	< 0.1	< 0.1	0.5
METHODS:	EPA 600/4-91-010,3050	6010	6010	6010	6010

Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

Chemist

03/08/10
Date

CARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: KEN LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 02/24/10
Reporting Date: 03/04/10
Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/24/10
Sample Type: SOIL
Sample Condition: INTACT @ 19.5°C
Sample Received By: JH
Analyzed By: JM

TOTAL METALS

LAB NO.	SAMPLE ID	As (mg/kg)	Ag (mg/kg)	Ba (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Se (mg/kg)
ANALYSIS DATE:		03/02/10	03/02/10	03/02/10	03/02/10	03/02/10	03/02/10	03/02/10	03/02/10
H19330-1	CELL #1 BATCH SAMPLE	< 10.0	< 1.0	103	< 1.0	4.91	< 5.0	< 0.1	< 20.0
H19330-2	CELL #1 2' DEEP	< 10.0	< 1.0	360	< 1.0	8.21	< 5.0	< 0.1	< 20.0
H19330-3	CELL #2 BATCH SAMPLE	10.1	< 1.0	112	< 1.0	4.77	< 5.0	< 0.1	< 20.0
H19330-4	CELL #2 2' DEEP	13.5	< 1.0	441	< 1.0	7.49	< 5.0	< 0.1	< 20.0
Quality Control		5.03	0.521	2.52	2.51	2.59	5.22	0.0022	10.2
True Value QC		5.00	0.500	2.50	2.50	2.50	5.00	0.0020	10.0
% Recovery		101	104	101	100	104	104	110	102
Relative Standard Deviation		0.7	< 0.1	0.5	0.5	< 0.1	0.5	4.9	1.0
METHODS: EPA 600/4-91/010,3050		6010	6010	6010	6010	6010	6010	7471	6010

Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

Chemist

03/08/10
Date

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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2008 SEP 18 PM 2 03

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260
FAX TO: (575) 391-9895

Receiving Date: 07/08/08
Reporting Date: 07/11/08
Project Number: 03-08
Project Name: PERMIT NM 01-0043
Project Location: S/2 SW/4 32-16S-30E

Sampling Date: 07/07/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AB
Analyzed By: CK/AB

LAB NO.	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		07/08/08	07/08/08	07/10/08	07/10/08	07/10/08	07/10/08
H15115-1	CELL #1 SURFACE S SPOT	<10.0	80.6	<0.025	<0.025	<0.025	<0.075
H15115-2	CELL #1 VADAZOZE 2 1/2' DEEP	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075
H15115-3	CELL #2 SURFACE S SPOT	<10.0	2,200	<0.025	<0.025	<0.025	<0.075
H15115-4	CELL #2 VADAZOZE 2 1/2' DEEP	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075
Quality Control		452	580	0.092	0.109	0.116	0.337
True Value QC		500	500	0.100	0.100	0.100	0.300
% Recovery		90.4	116	92.5	109	116	112
Relative Percent Difference		18.4	5.8	2.9	0.9	<0.1	0.6

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

07/11/08
Date

H15115BTEXT2 LH

NM1-43

CARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2043
LOVINGTON, NM 88260

Receiving Date: 12/04/08
Reporting Date: 12/05/08
Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: NOT GIVEN
Sample Type: SOIL
Sample Condition: INTACT
Sample Received By: ZL
Analyzed By: ZL

LAB NUMBI SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE	12/04/08	12/04/08	12/04/08	12/04/08
H16469-1 CELL#1 5 SPOT COMP	<0.050	<0.050	<0.050	0.390
H16469-2 CELL#1 2' VADA ZONE	<0.050	<0.050	<0.050	<0.300
H16469-3 CELL#2 5 SPOT COMP	<0.050	<0.050	<0.050	<0.300
H16469-4 CELL#2 2' VADA ZONE	<0.050	<0.050	<0.050	<0.300
Quality Control	0.047	0.054	0.055	0.166
True Value QC	0.050	0.050	0.050	0.150
% Recovery	94.0	108	110	111
Relative Percent Difference	1.2	2.1	1.9	2.2

METHOD: EPA SW-846 8021

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

12/10/08
Date

H16469 BTEX LOCO HILLS LAND

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2043
LOVINGTON, NM 88260

Receiving Date: 12/04/08
Reporting Date: 12/05/08
Project Owner: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: NOT GIVEN
Sample Type: SOIL
Sample Condition: INTACT
Sample Received By: ZL
Analyzed By: ZL

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)
ANALYSIS DATE		12/05/08	12/05/08
H16469-1	CELL#1 5 SPOT COMP	<10.0	<10.0
H16469-2	CELL#1 2' VADA ZONE	<10.0	<10.0
H16469-3	CELL#2 5 SPOT COMP	<10.0	1,890
H16469-4	CELL#2 2' VADA ZONE	<10.0	<10.0
Quality Control		535	593
True Value QC		500	500
% Recovery		107	119
Relative Percent Difference		<0.1	8.8

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

Lab Director

12/10/08
Date

H16469 TCL LOCOHILLS

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RECEIVED
2008 MAY 5 PM 2 45

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260
FAX TO: (575) 391-9895

Receiving Date: 04/18/08
Reporting Date: 04/22/08
Project Number: #2
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 04/17/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: CK/AB

LAB NO.	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		04/19/08	04/19/08	04/18/08	04/18/08	04/18/08	04/18/08
H14677-1	CELL #1 3' DEEP	<10.0	<10.0	<0.001	<0.001	<0.001	<0.003
H14677-2	CELL #1 COMPOSITE	<10.0	369	<0.005	<0.005	<0.005	<0.015
H14677-3	CELL #2 3' DEEP	<10.0	<10.0	0.003	0.013	0.006	0.016
H14677-4	CELL #2 COMPOSITE	<50.0	5,330	<0.005	0.025	0.060	0.192
Quality Control		223	182	0.097	0.088	0.084	0.268
True Value QC		200	200	0.100	0.100	0.100	0.300
% Recovery		112	91.0	97.0	87.6	84.3	89.3
Relative Percent Difference		7.5	4.4	9.0	8.5	7.4	6.2

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

Chemist

04/22/08
Date

H14677LHLF

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260
FAX TO: (575) 391-9895

Receiving Date: 07/08/08
Reporting Date: 07/11/08
Project Number: 03-08
Project Name: PERMIT NM 01-0043
Project Location: S/2 SW/4 32-16S-30E

Sampling Date: 07/07/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AB
Analyzed By: CK/AB

LAB NO.	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		07/08/08	07/08/08	07/10/08	07/10/08	07/10/08	07/10/08
H15115-1	CELL #1 SURFACE S SPOT	<10.0	80.6	<0.025	<0.025	<0.025	<0.075
H15115-2	CELL #1 VADAZOZE 2 1/2' DEEP	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075
H15115-3	CELL #2 SURFACE S SPOT	<10.0	2,200	<0.025	<0.025	<0.025	<0.075
H15115-4	CELL #2 VADAZOZE 2 1/2' DEEP	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075
Quality Control		452	580	0.092	0.109	0.116	0.337
True Value QC		500	500	0.100	0.100	0.100	0.300
% Recovery		90.4	116	92.5	109	116	112
Relative Percent Difference		18.4	5.8	2.9	0.9	<0.1	0.6

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Chemist

07/11/08
Date

H15115BTEXT2 LH

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 01/28/08
Reporting Date: 01/30/08
Project Number: 1-08
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/28/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		01/29/08	01/29/08	01/29/08	01/29/08
H14170-1	3' DEEP CELL #1	<0.020	0.099	<0.020	<0.060
H14170-2	3' DEEP CELL #2	<0.020	0.094	<0.020	0.061
H14170-3	COMPOSITE CELL #1	<0.020	0.087	<0.020	<0.060
H14170-4	COMPOSITE CELL #2	<0.020	0.203	0.623	1.68
Quality Control		0.100	0.086	0.090	0.263
True Value QC		0.100	0.100	0.100	0.300
% Recovery		99.5	86.0	90.4	87.7
Relative Percent Difference		0.8	0.1	0.4	0.5

METHOD: EPA SW-846 8021B

Chemist

1/30/08
Date

H14170BLHF

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 01/28/08
Reporting Date: 01/31/08
Project Number: 1-08
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/28/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)
ANALYSIS DATE:		01/29/08	01/29/08
H14170-1	3' DEEP CELL #1	<10.0	<10.0
H14170-2	3' DEEP CELL #2	<10.0	<10.0
H14170-3	COMPOSITE CELL #1	<10.0	<10.0
H14170-4	COMPOSITE CELL #2	122	3870
Quality Control		774	764
True Value QC		800	800
% Recovery		96.7	95.5
Relative Percent Difference		0.6	6.0

METHOD: SW-846 8015 M

Chemist

1/31/08
Date

H14170A LHLF

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 01/28/08
Reporting Date: 02/06/08
Project Number: 1-08
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/28/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/kg)	Ca (mg/kg)	Mg (mg/kg)	K (mg/kg)	Conductivity (u S/cm)	T-Alkalinity ($mgCaCO_3$/kg)
ANALYSIS DATE:		02/01/08	02/01/08	02/01/08	02/01/08	01/31/08	01/31/08
H14170-1	3' DEEP CELL #1	118	277	45.2	2.76	2,340	160
H14170-2	3' DEEP CELL #2	184	383	45.2	2.60	2,860	208
Quality Control		NR	49.2	51.6	3.16	1,429	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	98.5	103	105	101	NR
Relative Percent Difference		NR	< 0.1	1.5	3.2	0.5	NR
METHODS:			SM3500-Ca-D	3500-Mg E	8049	120.1	310.1

LAB NUMBER	SAMPLE ID	SO_4 (mg/kg)	CO_3 (mg/kg)	HCO_3 (mg/kg)	pH (s.u.)	TDS (mg/kg)
ANALYSIS DATE:		01/31/08	01/31/08	01/31/08	01/31/08	02/01/08
H14170-1	3' DEEP CELL #1	745	0	195	7.89	1,420
H14170-2	3' DEEP CELL #2	1,090	0	254	7.92	1,910
Quality Control		23.0	NR	1000	7.03	NR
True Value QC		25.0	NR	1000	7.00	NR
% Recovery		91.8	NR	100	100	NR
Relative Percent Difference		3.7	NR	< 0.1	< 0.1	NR
METHODS:		375.4	310.1	310.1	150.1	160.1

* Note: Analyses performed on 1:4 w:v aqueous extracts.
Results should therefore be considered approximate.

Kristen Sapiola
Chemist

02/11/08
Date

CARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 01/28/08
Reporting Date: 02/12/08
Project Number: 1-08
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/28/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM

WQCC METALS

LAB NO.	SAMPLE ID	Al ppm	Co ppm	Cu ppm	Fe ppm	Mn ppm	Mo ppm	Ni ppm	Zn ppm
ANALYSIS DATE:		02/08/08	02/11/08	02/06/08	02/06/08	02/06/08	02/08/08	02/11/08	02/11/08
H14170-1	3' DEEP CELL #1	13,900	< 5.0	8.10	10,380	295	< 5.0	15.4	21.5
H14170-2	3' DEEP CELL #2	14,880	< 5.0	9.65	10,350	222	< 5.0	16.8	26.5
Quality Control		5.27	1.97	2.02	2.07	1.89	1.86	2.00	0.525
True Value QC		5.00	2.00	2.00	2.00	2.00	2.00	2.00	0.500
% Recovery		105	98.5	101	104	94.5	93.0	100	105
Relative Standard Deviation		14.4	0.6	0.4	0.2	0.5	6.0	0.4	0.8
METHODS: EPA 600/4-91/010		202.1	219.1	220.1	236.1	243.1	246.1	249.1	289.1

Chemist

02-12-08
Date

H14170MM LOCO HILLS LF

CARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR
LOCO HILLS LANDFARM
ATTN: ANDREW LIVINGSTON
P.O. BOX 2093
LOVINGTON, NM 88260

Receiving Date: 01/28/08
Reporting Date: 02/11/08
Project Number: 1-08
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/28/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: HM/KS

WQCC METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		02/04/08	01/31/07	01/31/07	01/30/08	01/30/08	01/30/08	02/01/08	02/01/08
H14170-1	3' DEEP CELL #1	3.65	< 5.0	411	< 5.0	11.8	7.50	< 0.1	< 0.5
H14170-2	3' DEEP CELL #2	4.45	< 5.0	431	< 5.0	15.0	11.1	< 0.1	0.6
Quality Control		0.052	1.96	24.6	2.06	1.99	1.88	0.008	0.049
True Value QC		0.050	2.00	25.0	2.00	2.00	2.00	0.008	0.050
% Recovery		104	98.0	98.4	103	99.5	94.0	100	98.0
Relative Standard Deviation		3.7	0.2	2.2	0.2	0.3	1.1	< 0.1	2.6
METHODS: EPA 600/4-91/010		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

02/11/08
Date

H14170M LOCO HILLS LF